

JORGE ALBERTO HERNANDEZ RESTREPO

Justus-von-Liebig-Weg 3. 37077 Göttingen - Germany

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CURRICULUM VITAE

Date of Birth: December 02, 1973.
Place of Birth: Manizales – Colombia
Citizenship: Colombian
Research Interests: Lunar, Planetary and Small Bodies Geology and Geomorphology
Planetary Tectonics and Volcanism
Remote Sensing
Astrobiology
Remotely Piloted Aircraft Systems

EDUCATION

Since 2019 Ph.D. in Geosciences. International Max Planck Research School (IMPRS) at the Max Planck Institute for Solar System Research (MPS) and the University of Göttingen.

Research field: Mars surface and Neotectonics

2014-2016 Master of Science Remote Sensing, Catholic University of Manizales - CIAF.
Master's Thesis: Geomorphological characterization of Major channels in the Kasei Valles area (Mars), by integrating information obtained by the space missions Mars Global Surveyor, Mars Reconnaissance Orbiter, Mars Odyssey and Mars Express

Advisor: Prof. Jesús Martínez Frías Ph.D. (Complutense University of Madrid – IGEO).

Thesis Award: Meritorious distinction.

1992-1999 Bachelor of Science Geology, Caldas University, Manizales - Colombia.

Thesis Title: Geomorphology, Stratigraphy and slope stability of the Escarpe de Chipre – Manizales, Colombia.

Advisor: Prof. Fernando Sanchez (R.I.P) Caldas University.

WORK EXPERIENCE

2005-2019 Geologist – Research Inspector, CORPOCALDAS – Government Environmental Agency, Colombia. Field of work: Risk and disaster assessment, field Geology and Geomorphology, Drone based cartography

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- 2004 Technical inspector - field Geologist. Lisama 2D Seismic Exploration Project, AR Geophysical, Barrancabermeja (Santander –Colombia).
- 2003 Magnetometry for the oil industry, Tierranegra 2D block, Geofields SGI Ltda, Tauramena-Chameza (Casanare - Colombia).
2002. Quality Control Geologist (Q.C) on Seismic Acquisition. Alborada 2D Seismic Project, Group 695-65, GRANT Geophysical Intl. Inc., Cunday – Prado (Tolima) Colombia.
2002. Quality Control Geologist (Q.C) on Seismic Acquisition. Balcón 3D Seismic Project, Group 607-59, GRANT Geophysical Intl.Inc, Aipe (Huila) Colombia.
2002. Quality Control Geologist (Q.C) on Seismic Acquisition, Acevedo 2D & Swath Seismic Project, Group 606-58, GRANT Geophysical Intl. Inc, Acevedo (Huila) Colombia.
2001. Quality Control Geologist (Q.C) on Seismic Acquisition. Guadalupe 2D Seismic Project, Group 606-57, GRANT Geophysical Intl. Inc, Guadalupe – Garzón (Huila) Colombia.

LANGUAGES

- Berlitz English Proficiency Test –BPT. CEFR: B2
- MICHIGAN MTELP English Proficiency Test Score: 80%
- Spanish. Native.

WRITTEN DOCUMENTS

- Research Paper: *Approach to the geodynamic evolution of the major channels of Kasei Valleys (Mars)*. Published on Revista de la Sociedad Geológica de España (Geological Society from Spain Journal), on Volume 31 #1 June 2018.
- Joint Author of the book “*Geoethics in Latin America*”. Springer International Publishing (2018). ISBN 978-3-319-75373-7. DOI 10.1007/978-3-319-75373-7
- Master’s Degree Thesis: *Geomorphological characterization of Major channels in the Kasei Valles area (Mars), by integrating information obtained by the space missions Mars Global Surveyor, Mars Reconnaissance Orbiter, Mars Odyssey and Mars Express*, October 2016
- Poster at the Lunar and Planetary Science Conference –LPSC- named “*Geomorphological Features Indicative of Upwelling Groundwater on Mars*”, January 2014.
- Joint author of the module “*The health sector in face of the volcanic risk*” - Guide of Health Readiness Facing Volcanic Eruptions. Pan-American Health Organization (PAHO) and the European Commission of Humanitarian Help (ECHO), Ecuador, 2005.

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MEMBERSHIPS, AWARDS AND TRAINING

2018	Remotely Piloted Aircraft Systems – Pilot. Aeronautical School of Colombia
2017	Secretary at the International Working Group on Astroethics.
2017	Distinction to Master's Thesis in Meritorious Grade, by the Catholic University of Manizales
2016	International Association for Geoethics (IAGETH) Chapter Colombia Representative
2016	Member of the Spanish Planetology and Astrobiology Network – REDESPA
2007	Member of the National Technical Committee of the Contingency Plan against Hydrocarbons spills, and hazardous substances; in marine, fluvial and lacustrine waters – P.N.C.
2000	Member of the Colombian Geologists Professional Council
1994-2005	Colombian Red Cross Volunteer. Search and Rescue team member

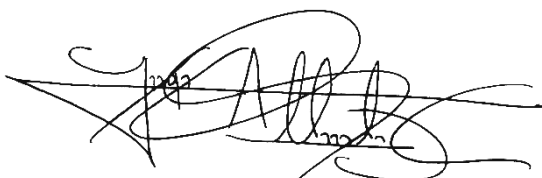
SOFTWARE SKILLS

JMARS Java Based GIS, ERDAS IMAGINE, SNAP Sentinel Application Platform, ArcGIS, Crater Tools software, Windows platform, Microsoft Office

REFERENCES

* **Jesús Martínez Frías PhD.** Senior Scientist at the Spanish National Research Council (CSIC), Head of the Department of Planetology and Habitability of the “Centro de Astrobiología” (CSICINTA, associated to the NASA Astrobiology Institute), and the Spanish Network of Planetology and Astrobiology - REDESPA. Chair of the IUGA-COGE and President of IAGETH (International Association for Geoethics). Ctra. De Ajalvir, km. 4, 28850 Torrejon de Ardoz, Madrid, Spain.
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* **Adriana C. Ocampo Uria PhD.** New Frontiers Lead Program Executive (Juno and New Horizons) Venus Lead Scientist. NASA HQ Science Mission Directorate Planetary Science Division. 300 E Street SW, 3X74 Washington DC 20546, USA.
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